

INNO-S

Multimode Microplate Reader
(Absorbance, Luminescence, Fluorescence)



Description

- Filter-based Fluorescence with diverse wavelength selection
- TRF (Time-Reserved Fluorescence)
- Xenon flash lamp & High Power LED
- Incubation and Shaking

Certifications

- IVD
- CE Marked
- RoHS
- ISO 9001 / ISO 13485 / ISO 14001
- 21 CFR Part 11 Compliance Software

Specification

General (Multimode Microplate Reader)

Detection modes	UV-Vis Absorbance / Fluorescence Intensity / Luminescence TRF (Time-Resolved Fluorescence)
Read methods	End point, Kinetic, Spectral scanning, Well-area scanning
Microplate types	6- to 384-well plates
Others	NANO-VC (Microvolume Plate), INNO-QM (Quality Check Plate)
Temperature control	Up to 50 °C ± 0.2°C at 37°C
Shaking	Linear & Orbital & Double Orbital with 4 different speeds
Software	INNO-X™ (Basic software) & INNO-XS™ (21 CFR part 11 Compliance Software) (Optional)

Absorbance

Light source	Xenon flash lamp	Pathlength correction	Yes
Detector	Photodiode	Monochromator wavelength accuracy	±2 nm
Wavelength selection	Monochromator	Monochromator wavelength repeatability	±0.2 nm
Wavelength range	200 ~ 999 nm, 1nm increments	OD linearity	<1% from 0 to 3.0 OD
Dynamic range	0 ~ 4.0 OD	OD repeatability	< 0.5% at 2.0 OD
Resolution	0.0001 OD		

Fluorescence Intensity

Filter-based Fluorescence Intensity

Light source	High Power LED	Wavelength range	350 ~ 750 nm (Options 850nm)
Detector	PMT	Dynamic range	>6 decades
Wavelength selection	Filters	Sensitivity	Top and Bottom : Fluorescein 5 pM (1 fmol/well, 96-well plate)

Luminescence

Wavelength range	200 ~ 700 nm (Options 850nm)	Sensitivity	10 amol ATP (filter)
Wavelength selection	Filters	Dynamic range	>7 decades
Detection system	Low noise PMT	Peak wavelength	410 nm

TRF (Time-Resolved Fluorescence)

Light source	High Power LED
Detector	Filters
Wavelength selection	PMT

Temperature control & Shaking

Temperature control	Up to 50 °C ± 0.2°C at 37°C
Shaking	Linear & Orbital & Double Orbital with 4 different speeds

Physical Characteristics

Connectivity	1 USB, 1 RS232 for external PC control	Dimensions	408W x 390L x 290H
Power	100-240 Volts AC. 50/60 Hz	Weight	18.2 kg

Applicable Optional Products

Reagent Injector (INNO-D)	<ul style="list-style-type: none"> • 2 Syringe pumps • 5 ~ 1,000µ → 15 ~ 1,000µ • Minimum prime Vol. 1.1mL, 100µL with back flush
Microvolume Plate (NANO-VC)	<ul style="list-style-type: none"> • Nucleic acid and protein quantification with DNA/RNA, Lysozyme, dsDNA, ssDNA, Etc. • 2-2.5µL sample capacity with 24 wells • 2.5ml cuvette holder
Quality Check Plate (INNO-QM)	<ul style="list-style-type: none"> • Absorbance linearity and accuracy QC • Luminescence linearity QC • Fluorescence linearity QC

INNO-S Product line Configurations

	INNO-S	INNO-SA	INNO-SF
Absorbance	0	0	
Fluorescence	0		0
Luminescence	0		0
TRF	0		0
Shaking	0	0	0
Incubation	0	0	0
Dual Reagent Injector	0	0	0

※The user can select TWO filter sets by default when purchasing the INNO-S(F) model